

[030] Referring to Fig. 1, a sensor device 1 for determining the rotation speed and direction of a rotary component (e.g., signal wheel) 2 is shown, which is arranged a certain distance LS from the component 2. The distance between the component 2 and the sensor device 1 is denoted here as the air gap LS, and during operation this varies dynamically due to manufacturing inaccuracies, for example, out-of-roundness of the component 2.

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1	Sensor device
2	Component (<u>e.g., signal wheel</u>)
3	Toothed profile
DB	Flux density change
LS	Air gap
low	Pulse height
high	Pulse height
high_v	Rotation-direction-dependent pulse height
high_r	Rotation-direction-dependent pulse height
s_o	Upper switching limit
s_u	Lower switching limit
t	Time
t_pb	Pulse width
t_pd	Period duration
t_pb_v	Rotation speed- or direction-dependent pulse width
t_pb_r	Rotation speed- or direction-dependent pulse width
t_pb_limit	Limit value of the pulse width
T_w	Time point
T_s	Time point
I, II	Sensor signal